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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/573,944	03/14/2007	Judith A. Varner	UCSD-10834	2052
23535 MEDLEN & C.	7590 03/11/201 ARROLL, LLP	EXAMINER		
101 HOWARD SUITE 350		BELYAVSKYI, MICHAIL A		
SAN FRANCIS	SCO, CA 94105	ART UNIT	PAPER NUMBER	
			1644	
		MAIL DATE	DELIVERY MODE	
		03/11/2010	PAPER	

Please find below and/or attached an Office communication concerning this application or proceeding.

The time period for reply, if any, is set in the attached communication.

		Application	on No.	Applicant(s)				
Office Action Summary		10/573,94	4	VARNER, JUDITH A.				
		Examiner		Art Unit				
			Belyavskyi	1644				
	The MAILING DATE of this communication appears on the cover sheet with the correspondence address Period for Reply							
A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) OR THIRTY (30) DAYS, WHICHEVER IS LONGER, FROM THE MAILING DATE OF THIS COMMUNICATION. - Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication. - If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication. - Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133). Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b).								
Status								
1)⊠ Re	sponsive to communication(s) filed on <u>16</u>	S November 2	200					
•								
<i>'</i> —	This action is FINAL . 2b) This action is non-final. Since this application is in condition for allowance except for formal matters, prosecution as to the merits is							
· —	closed in accordance with the practice under <i>Ex parte Quayle</i> , 1935 C.D. 11, 453 O.G. 213.							
closed in accordance with the practice under Ex pane Quayle, 1935 C.D. 11, 455 C.G. 215.								
Disposition	of Claims							
4)⊠ Cla	☑ Claim(s) <u>1-31</u> is/are pending in the application.							
4a)	4a) Of the above claim(s) <u>23-31</u> is/are withdrawn from consideration.							
5)☐ Cla	5) Claim(s) is/are allowed.							
6)⊠ Cla	6)⊠ Claim(s) <u>1-22</u> is/are rejected.							
	im(s) is/are objected to.							
·	im(s) are subject to restriction an	d/or election r	equirement.					
Application	Papers							
<u> </u>	specification is objected to by the Exam	iner						
•			Objected to by the F	Evaminer				
10) The drawing(s) filed on is/are: a) accepted or b) objected to by the Examiner.								
Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).								
Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d).								
11) The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152.								
Priority unde	er 35 U.S.C. § 119							
 12) Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f). a) All b) Some * c) None of: 1. Certified copies of the priority documents have been received. 2. Certified copies of the priority documents have been received in Application No 3. Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)). * See the attached detailed Office action for a list of the certified copies not received. 								
2) Notice of 3) Informatic	References Cited (PTO-892) Draftsperson's Patent Drawing Review (PTO-948) on Disclosure Statement(s) (PTO/SB/08) (s)/Mail Date		4) Interview Summary Paper No(s)/Mail Da 5) Notice of Informal P 6) Other:	ite				

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RESPONSE TO APPLICANT'S AMENDMENT

1. Applicant's amendment filed on 11/16/09 is acknowledged

Claims 1-31 are pending.

2. Claims 23-31 stand withdrawn from further consideration by the Examiner, 37 C.F.R. § 1.142(b) as being drawn to nonelected inventions.

Claims 1-22 read on a method for altering the level of hematopoietic progenitor cell adhesion to target tissue comprising using an agent that alters specific binding of intergin $\alpha 4\beta 1$ to an intergrin $\alpha 4\beta 1$ ligand are under consideration in the instant application.

3. The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless --

(b) the invention was patented or described in a printed publication in this or a foreign country or in public use or on sale in this country, more than one year prior to the date of application for patent in the United States.

4. Claims 1-22 stand rejected under 35 U.S.C. 102(b) as being anticipated by WO 94/11027 for the same reasons set forth in the previous Office Action mailed on 08/25/09.

Applicant's arguments, filed 11/16/09 have been fully considered, but have not been found convincing.

Applicant asserts that WO' 027 disclosed a method requiring administering of blocking agent to bone marrow tissue, while the instant claims exclude bone marrow endothelial tissue.

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Contrary to Applicant's assertion, WO' 027 does not limited its method only to bone marrow endothelial tissue. WO'027 teaches the general concept of altering the level of hematopoietic progenitor cell adhesion to target tissue. In particular, WO' 027 teaches that administering a blocking agent of VLA-4 antigen on the surface of hematopoietic stem cells and target tissue would result in disruption of interaction between VLA-4 and its microenvironmental ligand, such as fibronectin and/or VCAM-1 on stromal cell or in the extracellular matrix. Said blocking agent will act by competing with the extracellular matrix or stromal cell -bound binding protein for VLA-4 on the surface of stem cells. The proposed method comprises administering said blocking agent into the patient. (see pages 12, 15 and 25 in particular). In other word, said administration would inherently result in treating various target tissue that expressed integrin $\alpha 4\beta 1$ ligand. Mere recognition of latent properties in the prior art does not render nonobvious an otherwise known invention. In re Wiseman, 201 USPQ 658 (CCPA 1979). Granting a patent on the discovery of an unknown but inherent function would remove from the public that which is in the public domain by virtue of its inclusion in, or obviousness from, the prior art. In re Baxter Travenol Labs, 21 USPQ2d 1281 (Fed. Cir. 1991). See M.P.E.P. 2145.

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The teaching of bone marrow endothelial tissue as a target tissue in WO'027 was a preferred embodiment, however, it is well settled that according to MPEP § 2123, "[d]isclosed examples and preferred embodiments do not constitute a teaching away from a broader disclosure or nonpreferred embodiments. *In re Susi*, 440 F.2d 442, 169 USPQ 423 (CCPA 1971). 'A known or obvious composition does not become patentable simply because it has been described as somewhat inferior to some other product for the same use.' *In re Gurley*, 27 F.3d 551, 554, 31 USPQ2d 1130, 1132 (Fed. Cir. 1994)..."

WO' 027 teaches a method for altering the levels of hematopoietic progenitor cell adhesion to target tissue comprising using an agent that alters specific binding of intergin $\alpha 4\beta 1$ to an intergrin $\alpha 4\beta 1$ ligand (see entire document Abstract and pages 5,6, 12 in particular). WO' 027 teaches that said agent is an antibody, see pages 7 23 and 25 in particular).

The reference teaching anticipates the claimed invention.

- 4. No claim is allowed.
- **5. THIS ACTION IS MADE FINAL**. See MPEP § 706.07(a). Applicant is reminded of the extension of time policy as set forth in 37 CFR 1.136(a).

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A shortened statutory period for reply to this final action is set to expire THREE MONTHS from the mailing date of this action. In the event a first reply is filed within TWO MONTHS of the mailing date of this final action and the advisory action is not mailed until after the end of the THREE-MONTH shortened statutory period, then the shortened statutory period will expire on the date the advisory action is mailed, and any extension fee pursuant to 37 CFR 1.136(a) will be calculated from the mailing date of the advisory action. In no event, however, will the statutory period for reply expire later than SIX MONTHS from the date of this final action.

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6. Any inquiry concerning this communication or earlier communications from the examiner should be directed to Michail Belyavskyi whose telephone number is 571/272-0840. The examiner can normally be reached Monday through Friday from 9:00 AM to 5:30 PM. A message may be left on the examiner's voice mail service. If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Ram Shukla can be reached on 571/272-0735

The fax number for the organization where this application or proceeding is assigned is 571/273-8300

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

/Michail A Belyavskyi/ Primary Examiner, Art Unit 1644